

Substitute for form 1449A-PTO

FEB 06 2006

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket No.	895,675-173
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/SCC/	1.	US-5,559,901	09/24/1996	Lobregt	
✓	2.	US-6,561,980	05/13/2003	Cheng	
	3.	US-6,785,409	08/31/2004	Suri	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
/SCC/	4.	CHEN, C., LU, H., HSIAO, A., "A Dual-Snake Model of High Penetrability for Ultrasound Image Boundary Extraction", Ultrasound in Medicine and Biology, 2001, pp. 1651-1665, Vol. 27, No. 12, Elsevier, New York, U.S.A.	
↓	5.	KO, C., MAO, C., SUN, Y., CHANG, S., "A Fully Automated Identification of Coronary Borders from the Tree Structure of Coronary Angiograms", International Journal of Bio-Medical Computing, 1995, pp. 193-208, Vol. 39, No. 2, Elsevier, Barking, England	
↓	6.	KOVALSKI, G., BEYAR, R., SHOFTI, R., AZHARI, H., "Three-Dimensional Automatic Quantitative Analysis of Intravascular Ultrasound Images", Ultrasound in Medicine and Biology, 2000, pp. 527-537, Vol. 26, No. 4, Elsevier, New York, U.S.A.	
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Examiner Signature	/Sheela Chawan/	Date Considered	06/11/2007
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NBI:674959.1

PTO/SB-08a (08-03)

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Substitute for form 1449A-PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> SEP 12 2003 (Use as many sheets as necessary)				<b>Complete if Known</b>	
Sheet	1	of	2	Application No.	10/649,473
				Filing Date	August 28, 2003
				First Named Inventor	KLINGENSMITH
				Art Unit	2624
				Examiner Name	Not yet assigned S. Chawan
				Attorney Docket No.	895,675-173

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials <sup>a</sup>	Cite No. <sup>1</sup>	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/SCC/	1.	6,106,465	08/22/2000	Napolitano	
↓	2.	6,120,445	09/19/2000	Grunwald	
	3.	6,381,350	04/30/2002	Klingensmith	

<b>FOREIGN PATENTS</b>					
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code (if known)			
/SCC/	4.	0 633 548	11/11/95	Lobregt	
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<b>NON PATENT LITERATURE DOCUMENTS</b>					
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		T <sup>2</sup>			
/SCC/	5.	BRUINING, N., VON BIRGELEN, C., DE FEYTER, P., LIGTHART, J., SERRUYS, P., ROELANDT, J., "Dynamic Imaging of Coronary Stent Structures: An ECG-Gated Three-Dimensional Intracoronary Ultrasound Study in Humans", Ultrasound in Medicine and Biology, 1998, pp. 631-637, Vol. 24, No. 5, Elsevier, New York, U.S.A.			
↓	6.	IWASE, M., KONDO, T., HASEGAWA, K., KIMURA, M., MATSUYAMA, H., WATANABE, Y., HISHIDA, H., "Three-Dimensional Echocardiography by Semi-Automatic Border Detection in Assessment of Left Ventricular Volume and Ejection Fraction: Comparison with Magnetic Resonance Imaging", Journal of Cardiology, 1997, pp. 97-105, Vol. 30, No. 2, Japanese College of Cardiology, Tokyo, Japan			
	7.	KLINGENSMITH, J., VINCE, D., KUBAN, B., SHEKHAR, R., TUZCU, E., NISSEN, S., CORNHILL, J., "Assessment of Coronary Compensatory Enlargement by Three-Dimensional Intravascular Ultrasound", International Journal of Cardiac Imaging, 2000, pp. 87-98, Vol. 16, No. 2, Nijhoff, Boston, U.S.A.			
	8.	KLINGENSMITH, J., SHEKHAR, R., VINCE, D., "Evaluation of Three-Dimensional Segmentation Algorithms for the Identification of Luminal and Medial-Adventitial Borders in Intravascular Ultrasound Images", IEEE Transactions on Medical Imaging, 2000, pp. 996-1011, Vol. 19, No. 10, Institute of Electrical and Electronics Engineers, New York, U.S.A.			
↓	9.	LOBREGT, S., VIERGEVER, M., "A Discrete Dynamic Contour Model", IEEE Transactions on Medical Imaging, 1995, pp. 12-24, Vol. 14, No. 1, Institute of Electrical and Electronics Engineers, New York, U.S.A.			

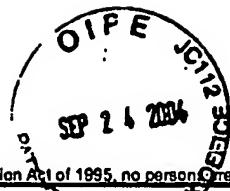
NBI:662756. 1 Examiner Signature	/Sheela Chawan/	Date Considered
06/11/2007		
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Substitute for form 1449A-PTO				<b>Complete If Known</b>	
				Application No.	10/849,473
				Filing Date	August 26, 2003
				First Named Inventor	KLINGENSMITH
				Art Unit	2624
				Examiner Name	Not yet assigned <i>S. Chawan</i>
Sheet	2	of	2	Attorney Docket No.	895,675-173

<b>NON-PATENT LITERATURE DOCUMENTS</b>				
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/SCC/	10.	NAIR, A., KUBAN, B., OBUCHOWSKI, N., VINCE, D., "Assessing Spectral Algorithms to Predict Atherosclerotic Plaque Composition with Normalized and Raw Intravascular Ultrasound Data", <i>Ultrasound in Medicine and Biology</i> , 2001, pp. 1319-1331, Vol. 27, No. 10, Elsevier, New York, U.S.A.		
	11.	SEBBABI, A., HERMANT, A., DE CESARE, A., MOUSSEAU, E., "Multimodality Cardiovascular Image Segmentation Using a Deformable Contour Model", <i>Computerized Medical Imaging and Graphics</i> , 1997, pp. 79-89, Vol. 21, No. 2, Pergamon Press, New York, U.S.A.		
	12.	TSUTSUI, H., ZIADA, K., SCHOENHAGEN, P., IYISOY, A., MAGYAR, W., CROWE, T., KLINGENSMITH, J., VINCE, D., RINCON, G., HOBBS, R., YAMAGISHI, M., NISSEN, S., TUZCU, E., "Lumen Loss in Transplant Coronary Artery Disease is a Biphasic Process Involving Early Intimal Thickening and Late Constrictive Remodeling: Results from a 5-Year Serial Intravascular Ultrasound Study", <i>Circulation</i> , 2001, pp. 653-657, Vol. 104, No. 6, American Heart Association, Dallas, U.S.A.		
	13.	VON BIRGELEN, C., DI MARIO, C., LI, W., SCHUURBIERS, J., SLAGER, C., DE FEYTER, P., ROELANDT, J., SERRUYS, P., "Morphometric Analysis in Three-Dimensional Intracoronary Ultrasound: An In Vitro and In Vivo Study Performed with a Novel System for the Contour Detection of Lumen and Plaque", <i>American Heart Journal</i> , 1996, pp. 516-527, Vol. 132, No. 3, Elsevier, St. Louis, U.S.A.		
↓	14.	VON BIRGELEN, C., DE VREY, E., MINTZ, G., NICOSIA, A., BRUINING, N., LI, W., SLAGER, C., ROELANDT, J., SERRUYS, P., DE FEYTER, P., "ECG-Gated Three-Dimensional Intravascular Ultrasound: Feasibility and Reproducibility of the Automated Analysis of Coronary Lumen and Atherosclerotic Plaque Dimensions in Humans", <i>Circulation</i> , 1997, pp. 2944-2952, Vol. 96, No. 9, American Heart Association, Dallas, U.S.A.		

NB1:662756. 1 Examiner Signature	/Sheela Chawan/	Date Considered	06/11/2007
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.</p> <p>Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="http://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.</p> <p>This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p>			
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Sheet 1 of 2

Substitute for form 1449/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number 10/649,473 Filing Date 08/26/2003 First Named Inventor Klingensmith Art Unit 2621-2620 Examiner Name Not yet assigned S. Chas	
Sheet 1	of 2	Attorney Docket Number 895,675-173	

## **U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/SCCI/	A01	US- 4,228,804	10/21/1980	Holasek	
	A02	US- 4,511,984	04/16/1985	Sumino	
	A03	US- 4,561,019	12/24/1985	Lizzi	
	A04	US- 4,575,799	03/11/1986	Miwa	
	A05	US- 4,858,124	08/15/1989	Lizzi	
	A06	US- 5,235,984	08/17/1993	D'Sa	
	A07	US- 5,363,850	11/15/1994	Soni	
	A08	US- 5,417,215	05/23/1995	Evans	
	A09	US- 5,445,155	08/29/1995	Sieben	
	A10	US- 5,724,972	03/10/1998	Petrofsky	
	A11	US- 5,876,343	03/02/99	Teo	
	A12	US- 5,885,218	03/23/1999	Teo	
	A13	US- 5,938,607	08/17/1999	Jago	
	A14	US- 5,957,138	09/28/1999	Lin	
	A15	US- 6,050,946	04/18/2000	Teo	
	A16	US- 6,095,976	08/01/2000	Nachotomy	
	A17	US- 6,106,460	08/22/2000	Panescu	
▼	A18	US- 6,106,465	08/22/2000	Napolitano	
	A19	US- 6,120,445	09/19/00	Grunwald	

## FOREIGN PATENT DOCUMENTS

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/Sheela Chawan/

Dale  
Considered

06/11/2007

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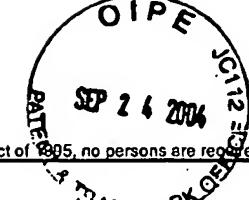
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Sheet 2



## Complete if Known

Application Number	10/649,473
Filing Date	08/26/2003
First Named Inventor	Klingensmith
Art Unit	2621
Examiner Name	Not yet assigned
Attorney Docket Number	895,675-173

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SCC	A20	US- 6,152,878	11/28/2000	Nachotomy	
	A21	US- 6,217,517	04/17/2001	Grunwald	
	A22	US- 6,238,342	05/29/2001	Feleppa	
	A23	US- 6,254,541	07/03/2001	Teo	
	A24	US- 6,287,259	09/11/2001	Grunwald	
	A25	US- 6,306,089	10/23/2001	Coleman	
	A26	US- 6,335,980	01/01/2002	Armato	
	A27	US- 6,454,715	09/24/2002	Teo	
	A28	US- 6,514,202	02/04/2003	Grunwald	
	A29	US- 6,544,187	04/08/2003	Seward	
	A30	US- 2001/0014774	08/16/2001	Grunwald	
	A31	US- 2003/0028118	02/03/2003	Dupree	
	A32	US- 2003/0092993	05/15/2003	Grunwald	
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	BB							
	BC							

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Sheet

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Application Number	Not Yet Assigned
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First Named Inventor	KLINGENSMITH et al.
Group Art Unit	2624
Examiner Name	S. Chawen

Attorney Docket Number

895,675-173

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SCC/	BD	NAIR, A., KUBAN, B., OBUCHOWSKI, N., and VINCE, D., "Assessing Spectral Algorithms to Predict Atherosclerotic Plaque Composition With Normalized and Raw Intravascular Ultrasound Data", Ultrasound in Medicine and Biology, 2001, pp. 1319-1331, Vol. 27, No. 10, Elsevier, U.S.A.	
↓	BE	NAIR, A., KUBAN, B., TUZCU, E., SCHOENHAGEN, P., NISSEN, S., and VINCE, D., "Coronary Plaque Classification With Intravascular Ultrasound Radiofrequency Data Analysis", Circulation, 2002, pp. 2200-2208; 106, American Heart Association, U.S.A.	
↓	BF	KLINGENSMITH, J. and VINCE, D., "B-Spline Methods for Interactive Segmentation and Modeling of Lumen and Vessel Surfaces in Three-Dimensional Intravascular Ultrasound," Computerized Medical Imaging and Graphics 26, 2002, pp. 429-438, Elsevier Science Ltd., U.S.A.	
	BG		
	BH		
	BI		
	BJ		
	BK		
	BL		
	BM		
	BN		

Examiner Signature	/Sheela Chawan/	Date Considered	06/11/2007
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.